



Central Illinois Drought Update

June 22, 2023
9:47 AM

Severe Drought Impacting Central Illinois

Key Messages

- Drought conditions are expanding over a large part of central Illinois
- Significant rainfall is not expected through the end of June

NEW

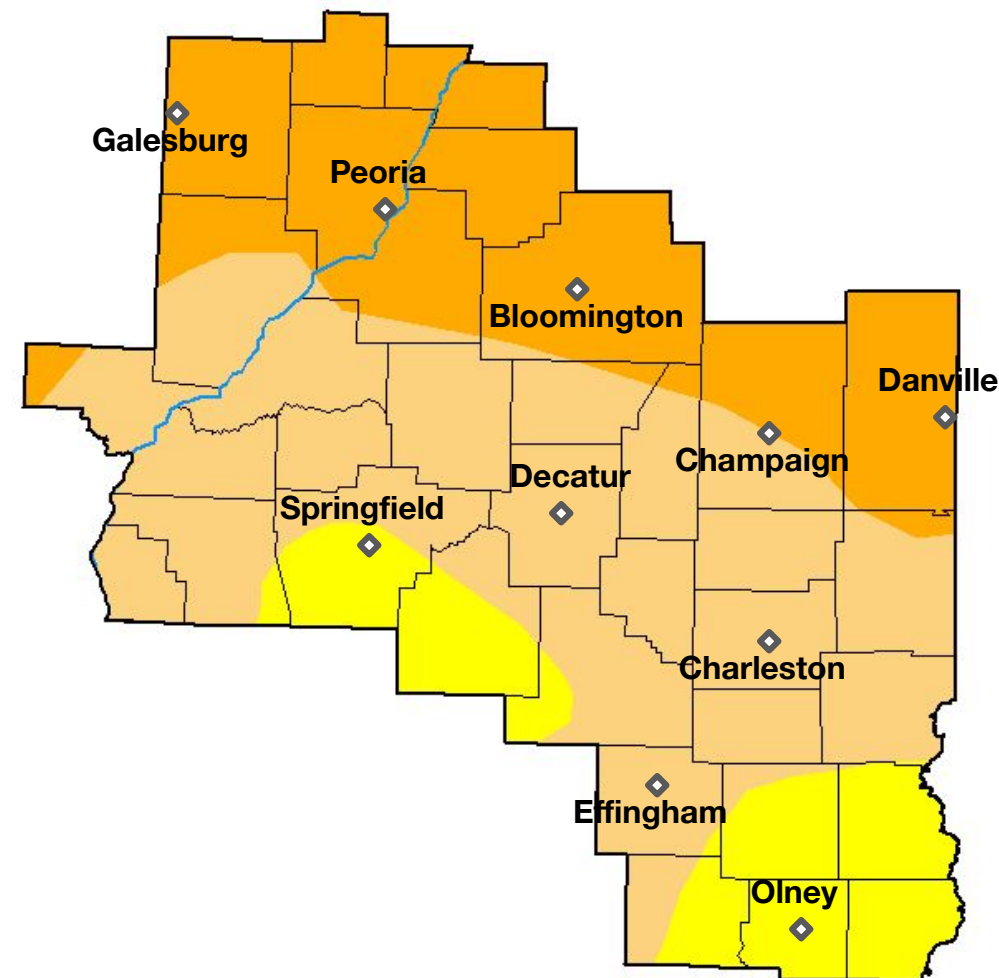
What Has Changed

- D2 (severe) drought has expanded southward past the I-74 corridor
- D1 (moderate) drought expanding into parts of west central and southeast Illinois

Next Scheduled Update

- June 29th

U.S. Drought Monitor Lincoln, IL WFO



June 20, 2023

(Released Thursday, Jun. 22, 2023)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|---|--------|--------|-------|-------|-------|------|
| Current | 0.00 | 100.00 | 84.52 | 32.64 | 0.00 | 0.00 |
| Last Week 06-13-2023 | 1.50 | 98.50 | 69.01 | 12.62 | 0.00 | 0.00 |
| 3 Months Ago 03-21-2023 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start of Calendar Year 01-03-2023 | 37.65 | 62.35 | 7.89 | 0.00 | 0.00 | 0.00 |
| Start of Water Year 09-27-2022 | 66.27 | 33.73 | 5.64 | 0.00 | 0.00 | 0.00 |
| One Year Ago 06-21-2022 | 54.06 | 45.94 | 14.87 | 0.00 | 0.00 | 0.00 |

Intensity:

| | |
|---------------------|------------------------|
| None | D2 Severe Drought |
| D0 Abnormally Dry | D3 Extreme Drought |
| D1 Moderate Drought | D4 Exceptional Drought |

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

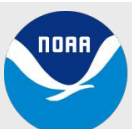
Author:

Adam Hartman

NOAA/NWS/NCEP/CPC

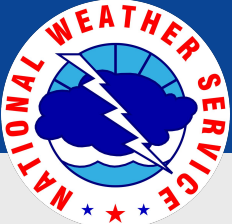


droughtmonitor.unl.edu



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Drought Category Definitions

| Category | | Typical Impacts |
|--|--------------------------------|--|
|  | D0: Abnormally Dry | <ul style="list-style-type: none">• Soil moisture declines; lawns turn brown |
|  | D1: Moderate Drought | <ul style="list-style-type: none">• Row crops and pastures show drought stress• Fireworks are discouraged• Trees show drought stress; wildlife eat more crops |
|  | D2: Severe Drought | <ul style="list-style-type: none">• Row crops and vegetable conditions are poor; hay yield is low; corn is baled for feed• Outdoor burn bans are implemented• Lawns go dormant; weeds grow faster• Farmers are stressed; agriculture industry is hurting• Power plant intakes can be compromised; water levels in wells, ponds, rivers and lakes are low; streamflow is below average; voluntary water conservation is requested |
|  | D3: Extreme Drought | <ul style="list-style-type: none">• Disease kills deer; fish are stressed• Vegetation is stressed• Well and reservoir levels are very low |
|  | D4: Exceptional Drought | <ul style="list-style-type: none">• Feed prices are high; crop loss is widespread; livestock are culled• Wildlife are severely stressed; fish kills occur in lakes and rivers |

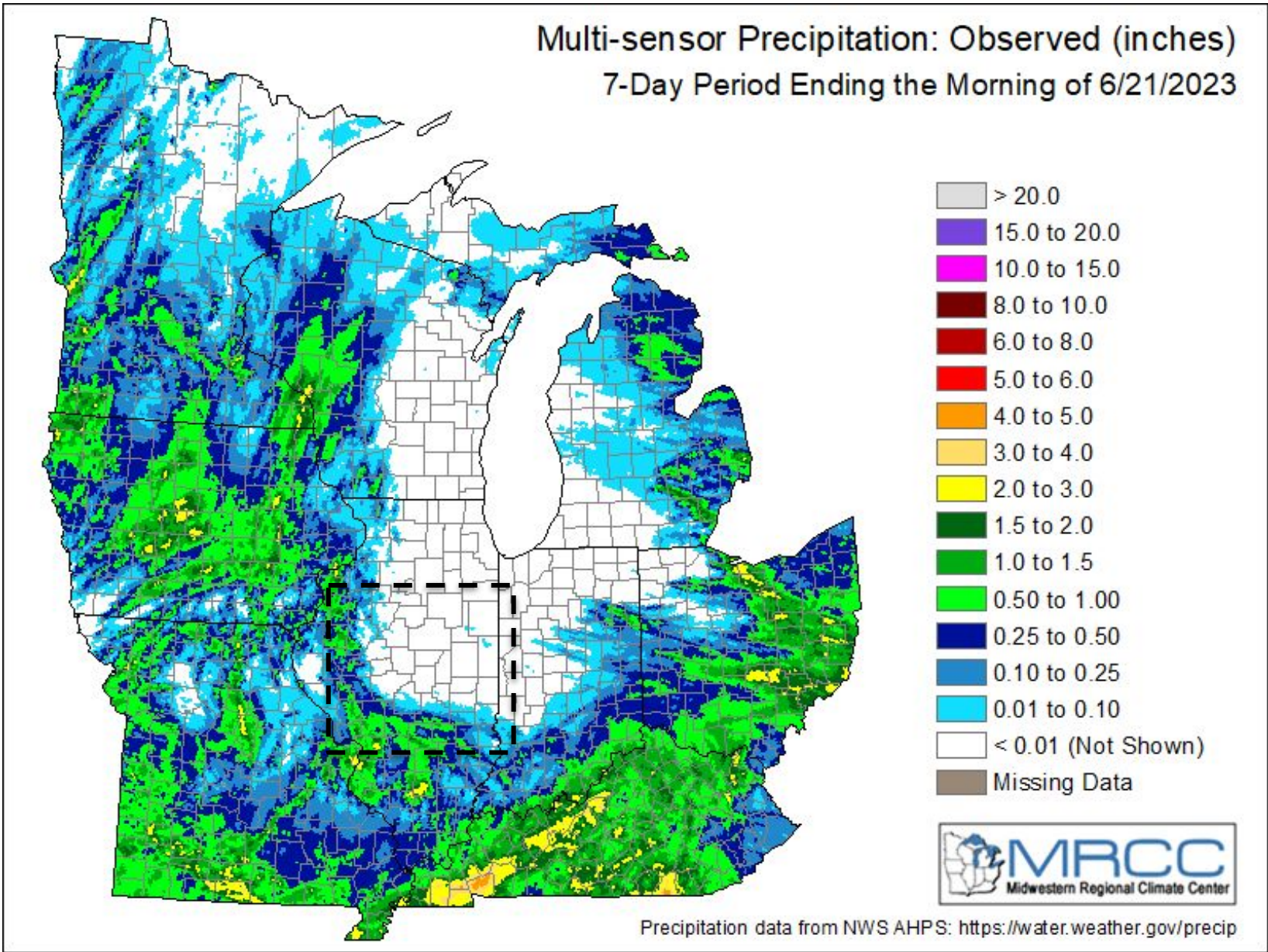




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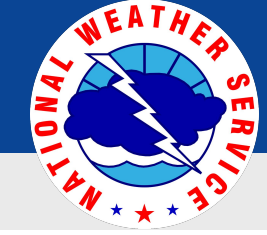
Precipitation Totals



Totals through June 20th:

| Location | Rainfall Since May 1 | Departure from Normal |
|-------------|----------------------|-----------------------|
| Champaign | 2.71" | -5.17" |
| Decatur | 2.42" | -5.82" |
| Galesburg | 3.28" | -5.14" |
| Normal | 2.48" | -5.06" |
| Peoria | 2.06" | -5.18" |
| Springfield | 3.87" | -3.83" |





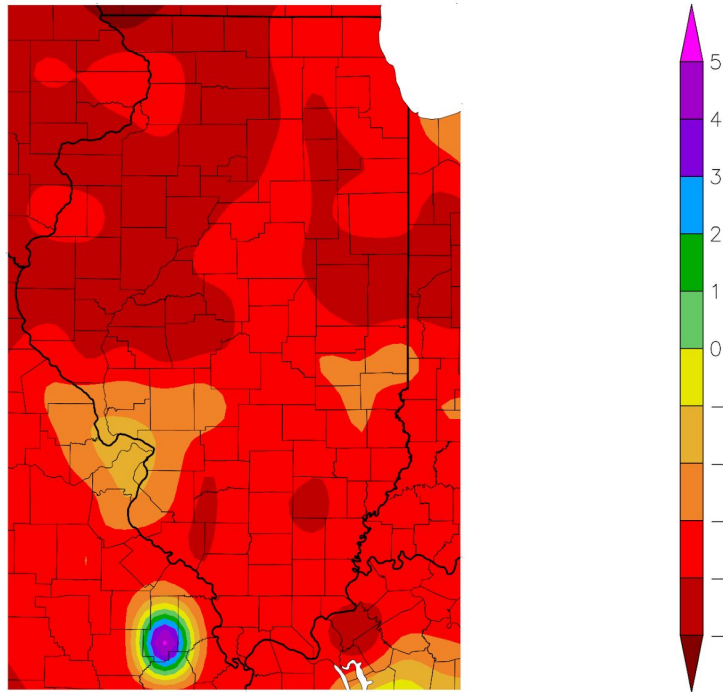
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Departure from Normal Precipitation

Last 30 Days

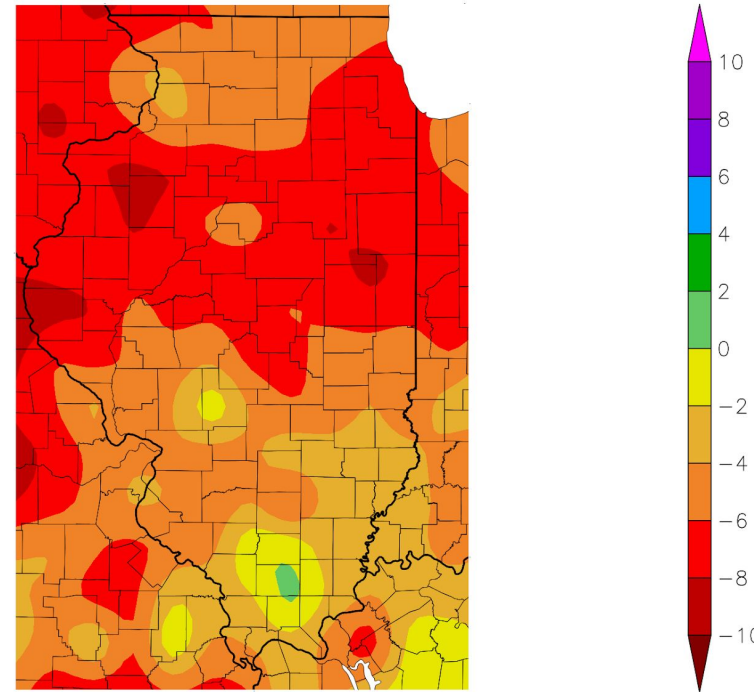
Departure from Normal Precipitation (in)
5/23/2023 – 6/21/2023



NOAA Regional Climate Center

Last 90 Days

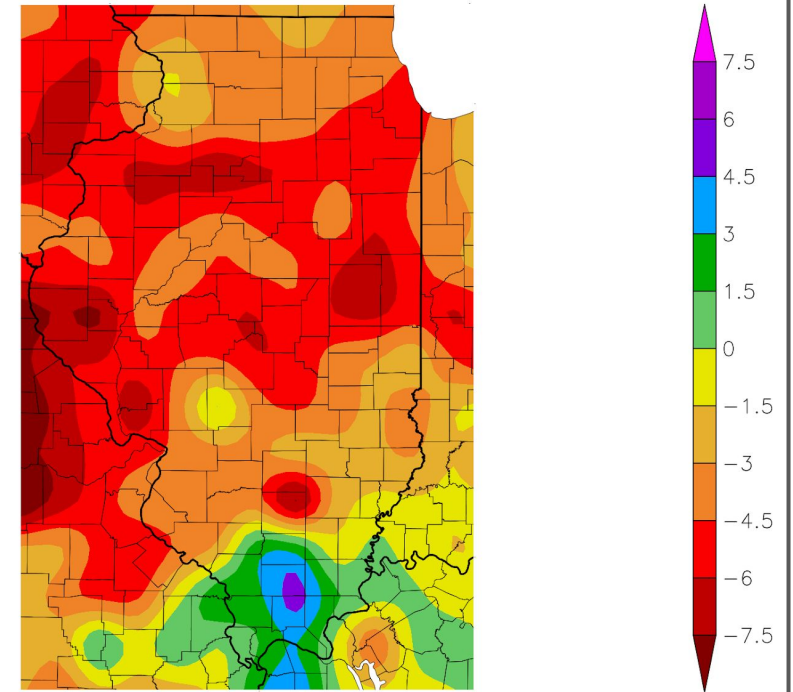
Departure from Normal Precipitation (in)
3/24/2023 – 6/21/2023



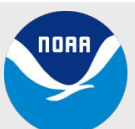
NOAA Regional Climate Center

Year to Date

Departure from Normal Precipitation (in)
1/1/2023 – 6/21/2023



NOAA Regional Climate Center



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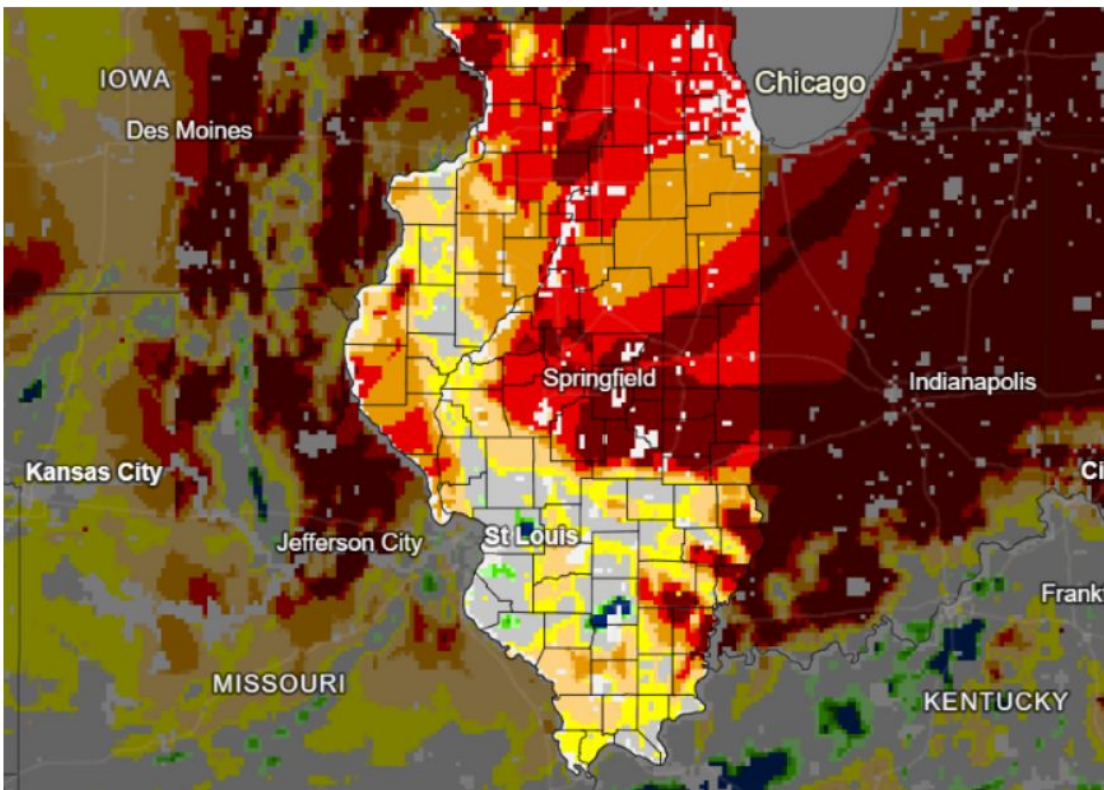


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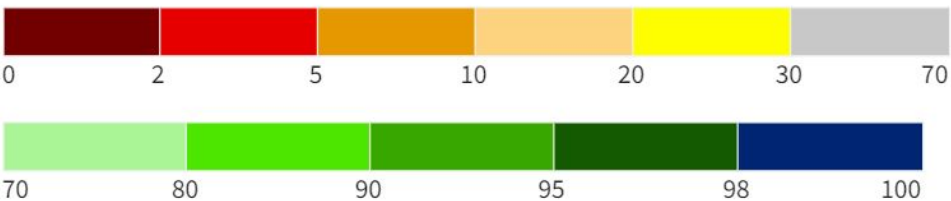
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Soil Moisture Conditions

20 cm Soil Moisture Percentile



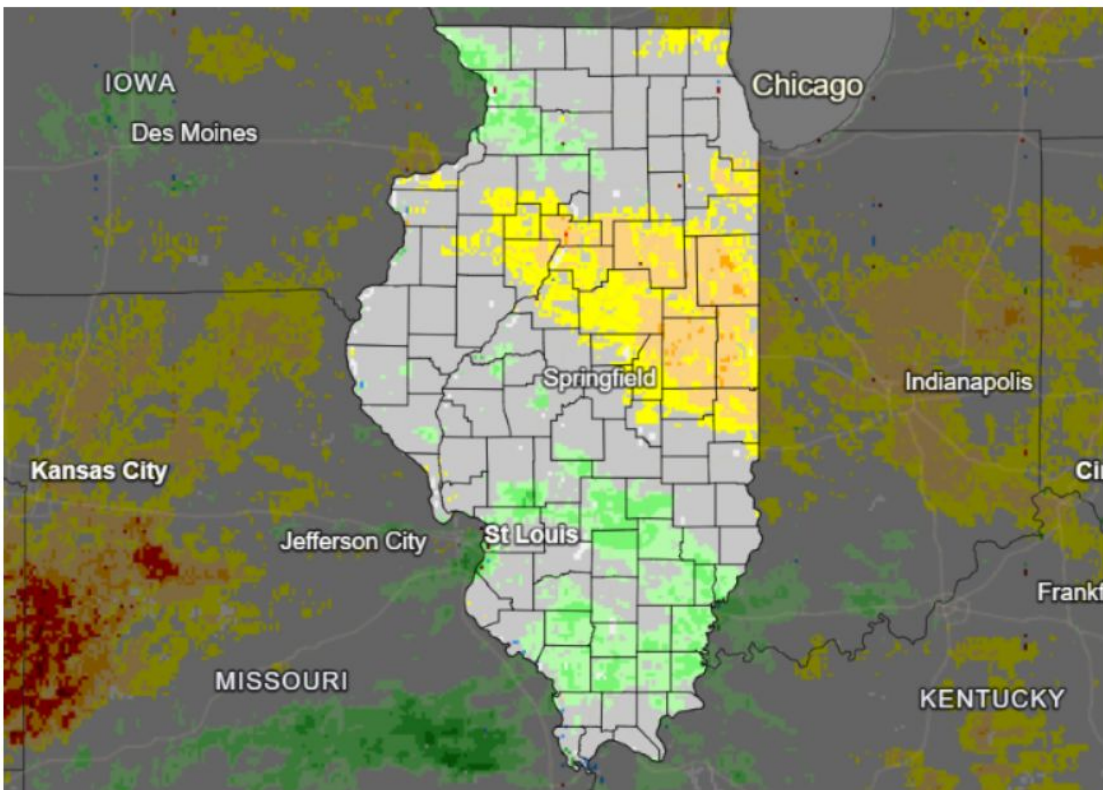
20 cm Soil Moisture Percentile



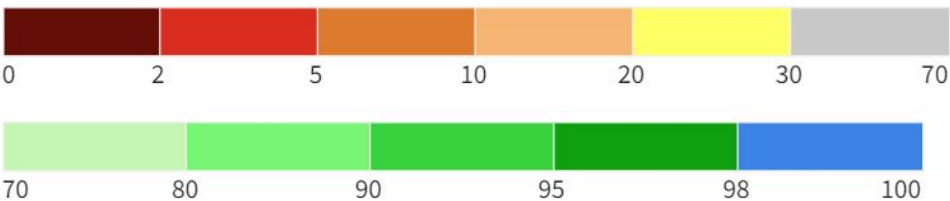
Source(s): NationalSoilMoisture.com
Data Valid: 06/19/23

[Drought.gov](https://drought.gov)

0-100 cm Soil Moisture Percentile



0-100 cm Soil Moisture Percentile



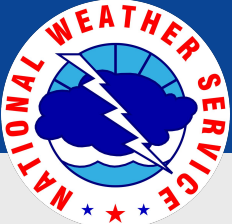
Source(s): NASA
Data Valid: 06/21/23

[Drought.gov](https://drought.gov)

Key Points:

- Statewide topsoil moisture was rated 42% very short and 45% short
- Statewide subsoil moisture was rated 38% very short and 45% short

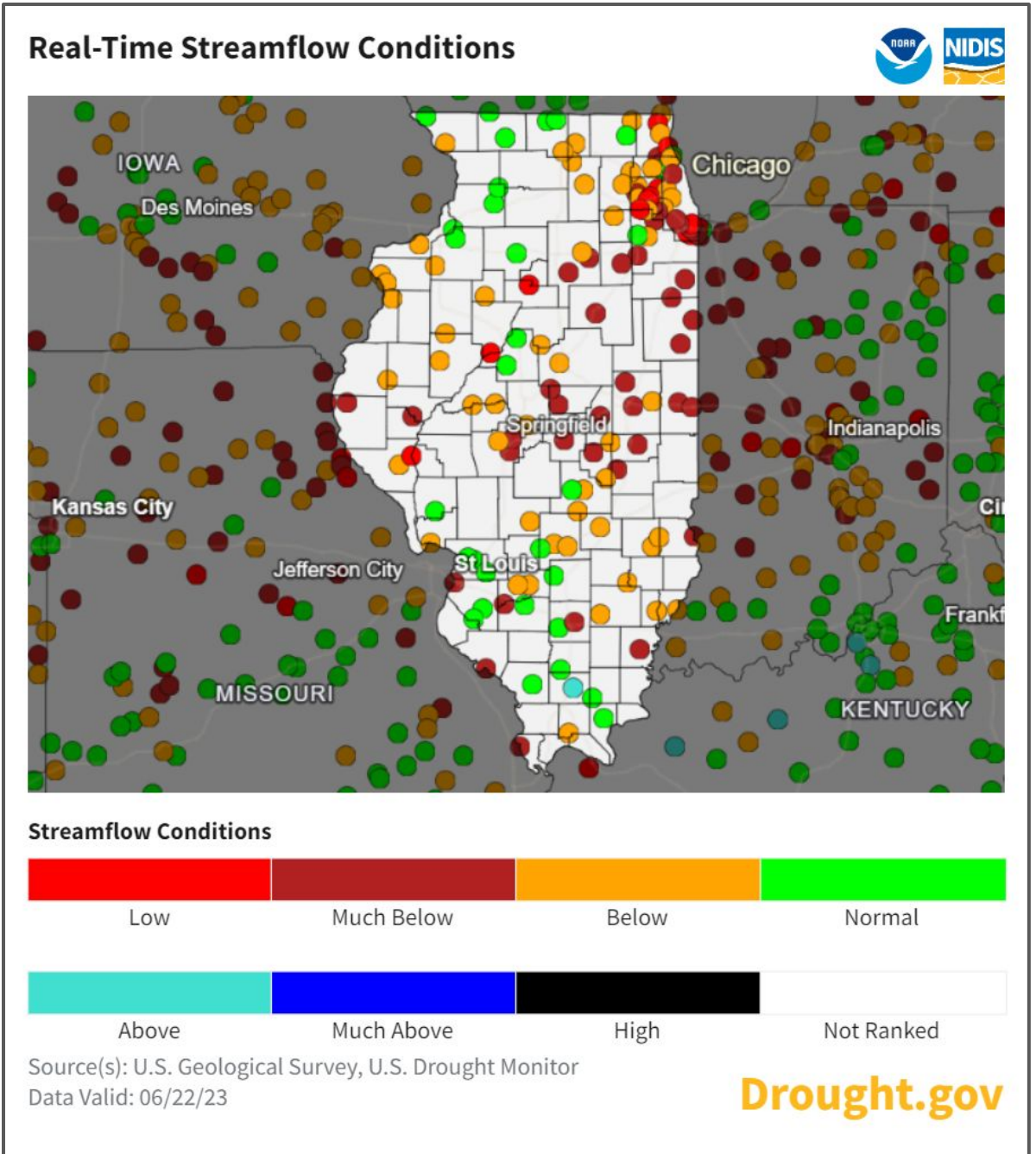




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Streamflow Mappings



Key Points:

- Streamflow conditions are much below normal over many areas of central Illinois
- Larger bodies of water (Lake Springfield, Lake Decatur, Lake Shelbyville, Clinton Lake) are currently near typical summer levels





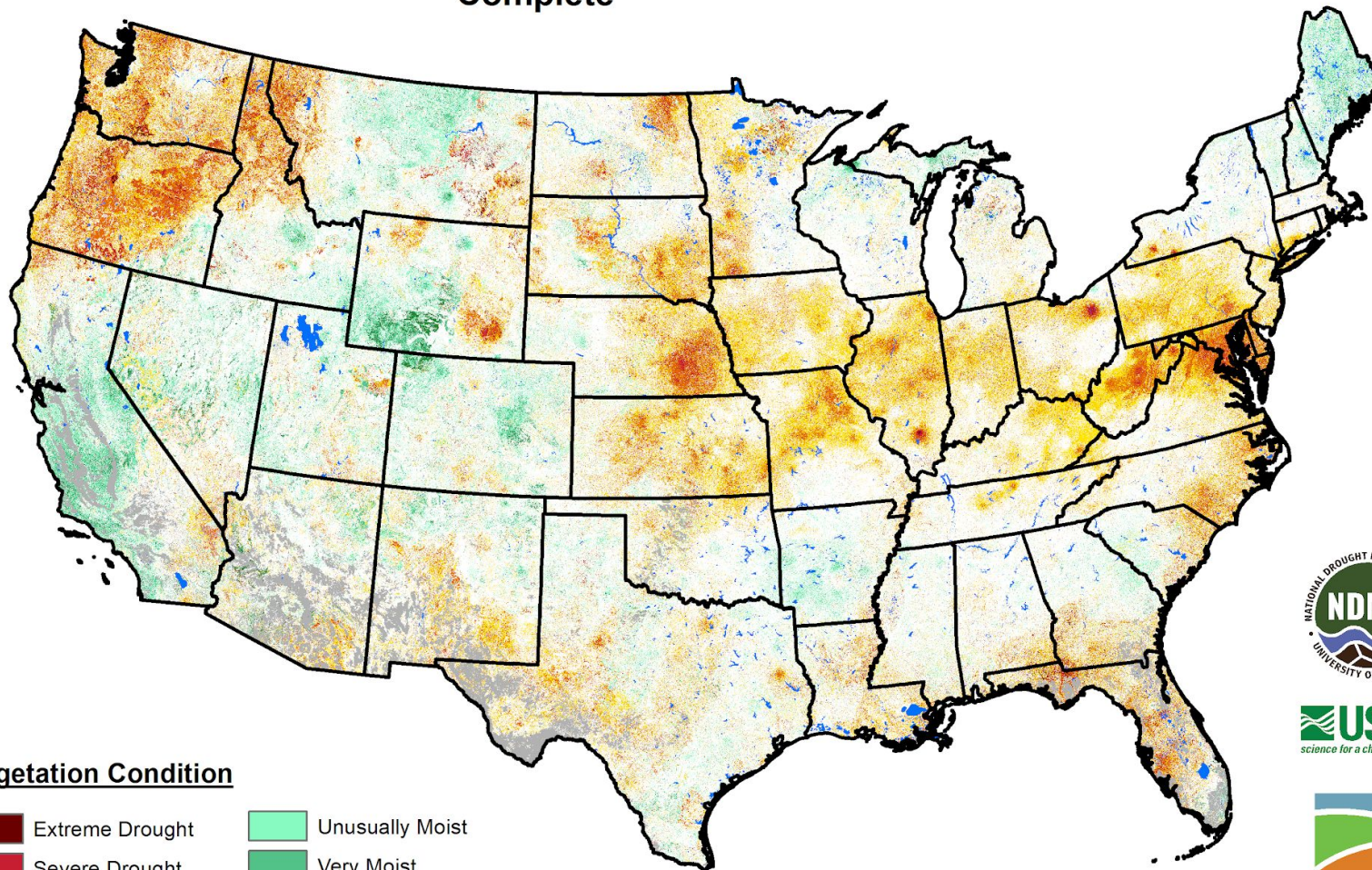
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Fire Danger Information

Vegetation Drought Response Index Complete

June 18, 2023



Vegetation Condition

| | |
|--------------------|-----------------|
| Extreme Drought | Unusually Moist |
| Severe Drought | Very Moist |
| Moderate Drought | Extreme Moist |
| Pre-drought stress | Out of Season |
| Near Normal | Water |



Key Points:

- Burn bans currently in place in Mapleton (Peoria County), and in Danville and Hoopeston (Vermilion County)
- Due to the dry vegetation, risk of fire will increase on breezy days with lower relative humidity
- Fireworks may cause an increase risk of fire if not properly used

WILDFIRE SAFETY

Properly discard cigarettes.

Keep vehicles off of dry grass.

Avoid activities with open flames or sparks.

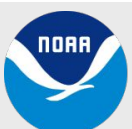
Avoid power equipment that creates sparks.

Obey burn bans.

Evacuate if fire/smoke is heading your way.

Evacuate if ordered to do so by local officials.

weather.gov/fire



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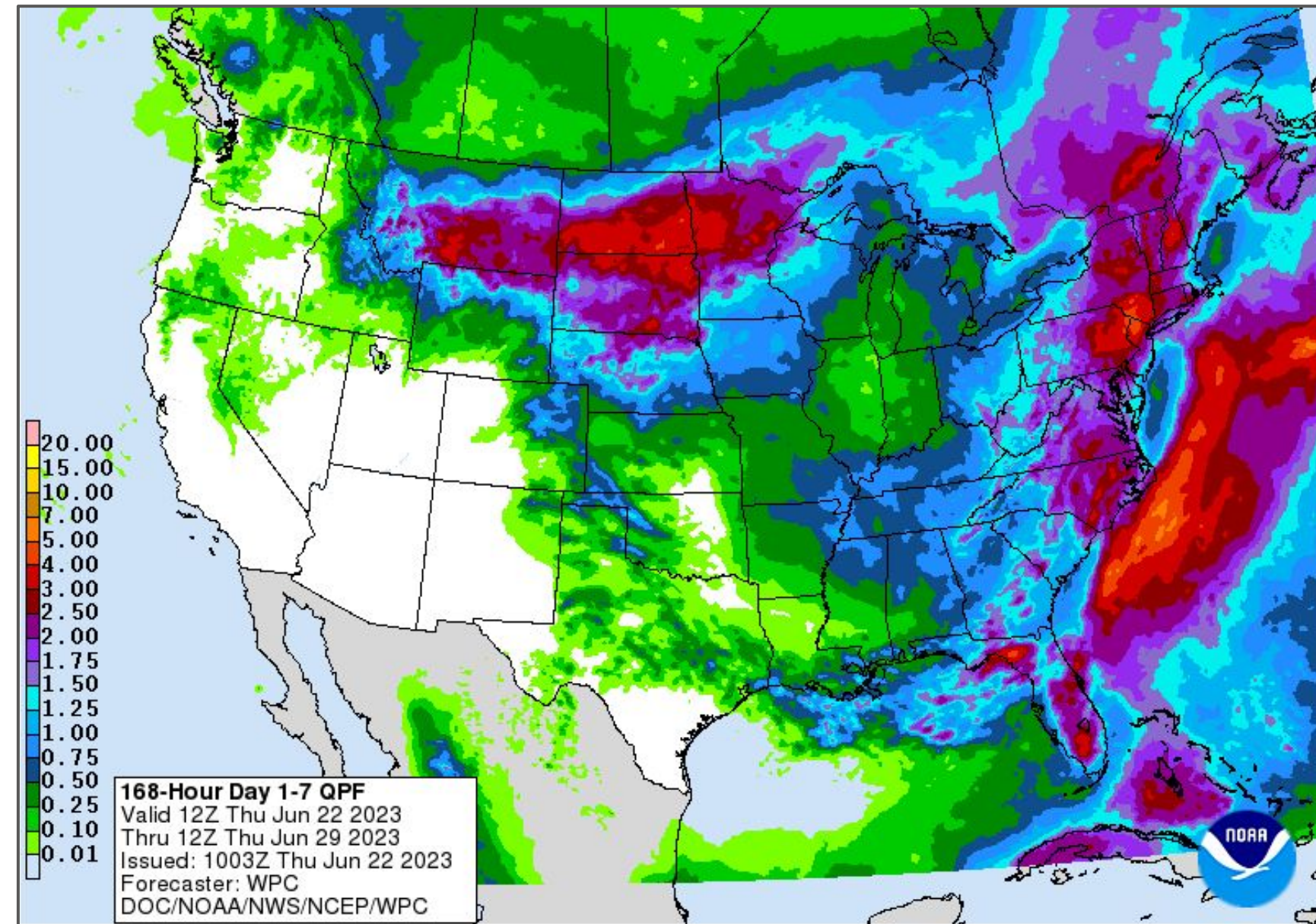
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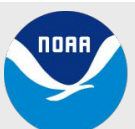
Upcoming Precipitation Potential

Key Points:

- The main period of any significant rainfall threat will be from Saturday night through Sunday night (June 24-25)
- Chances of more than a quarter inch of rain are generally around 40% or less



Next 7 Days



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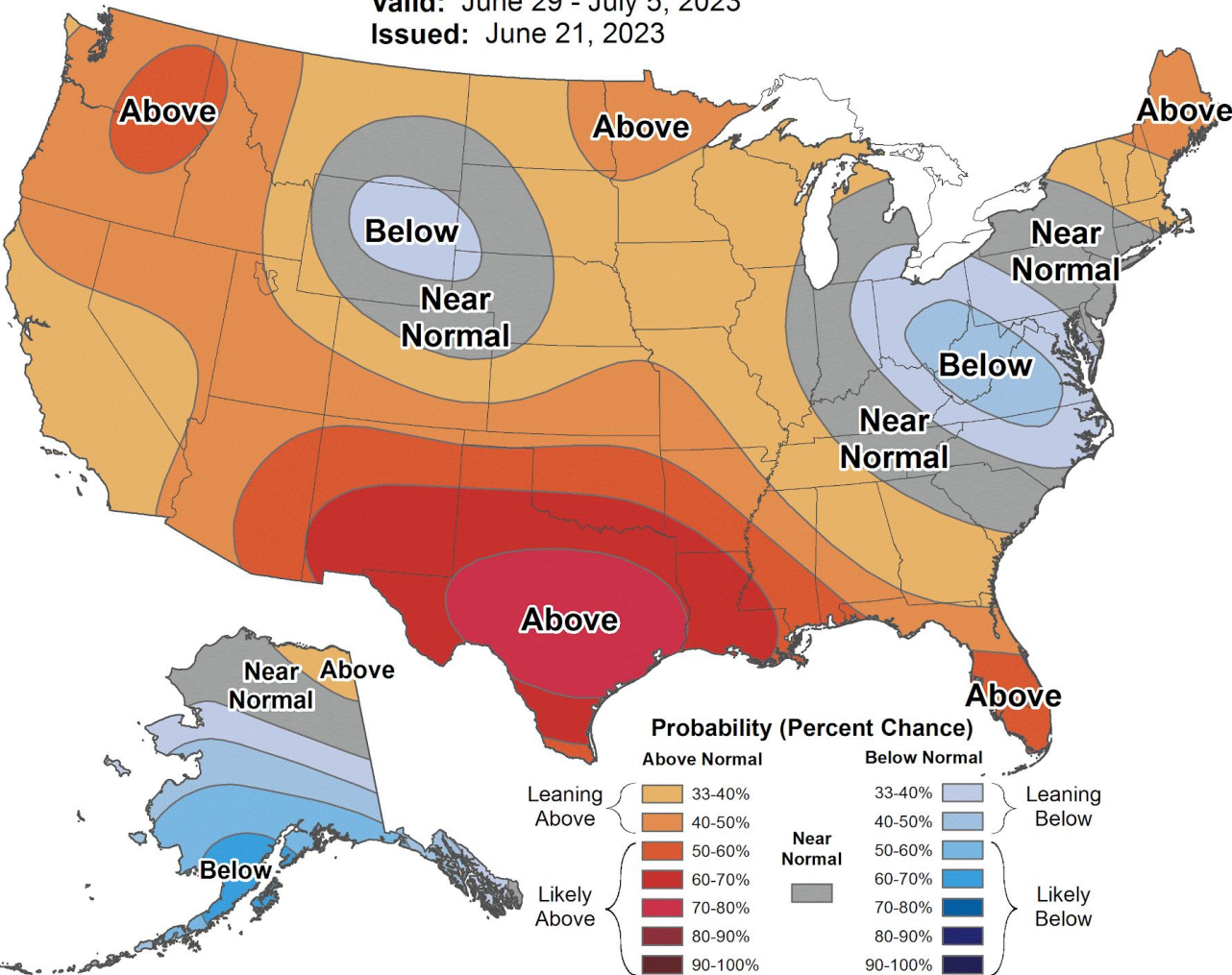
Short Term Climate Outlook



8-14 Day Temperature Outlook



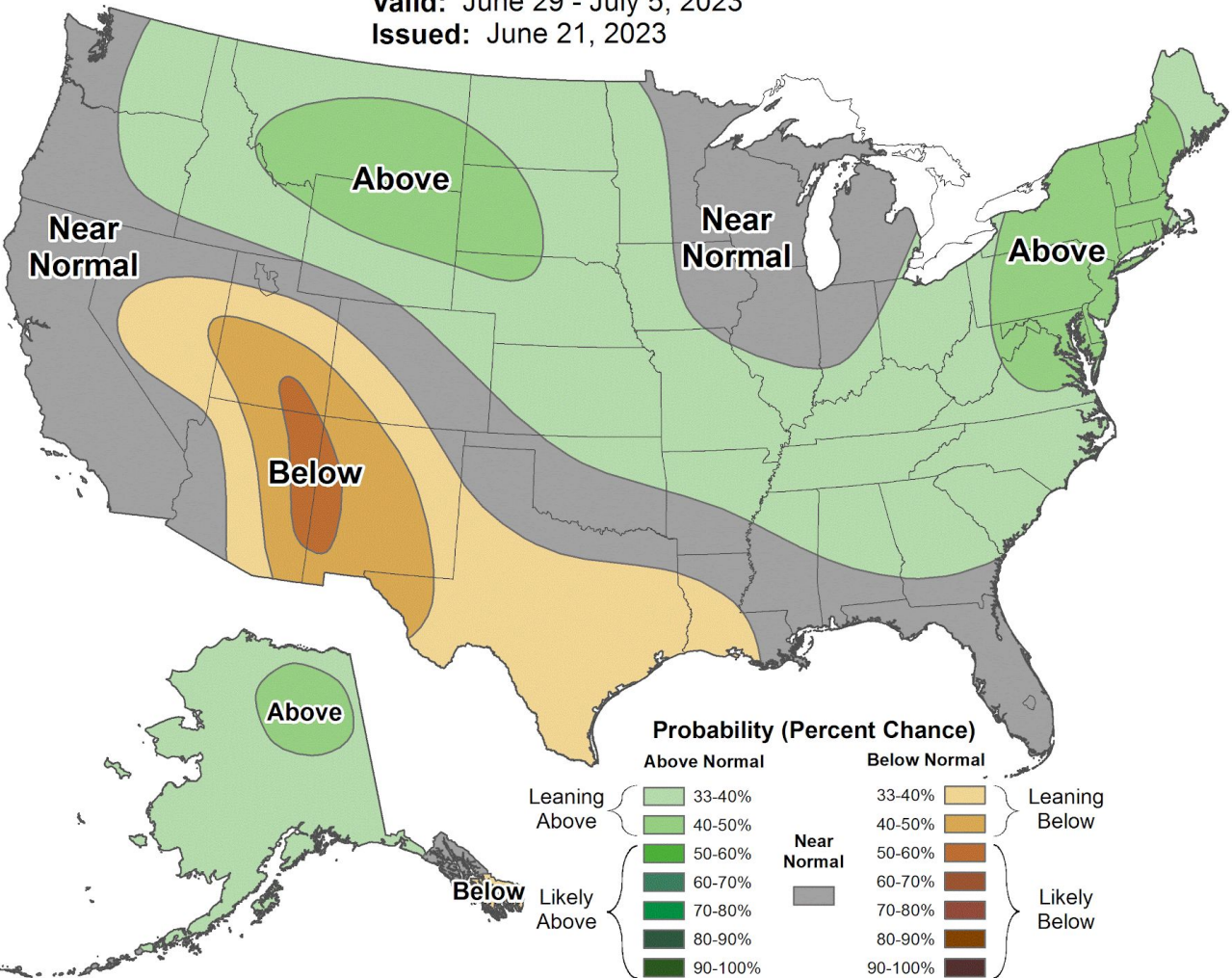
Valid: June 29 - July 5, 2023
Issued: June 21, 2023



8-14 Day Precipitation Outlook



Valid: June 29 - July 5, 2023
Issued: June 21, 2023

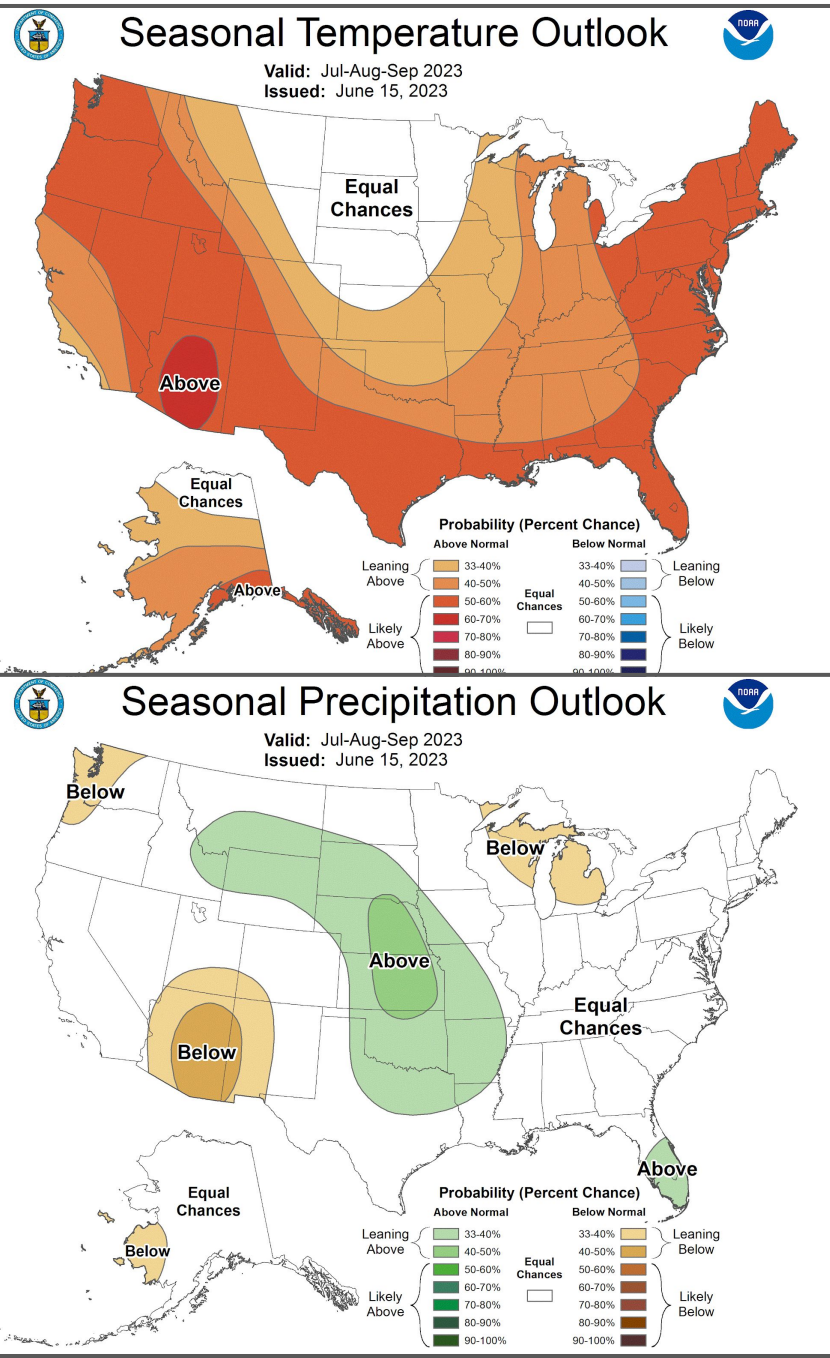




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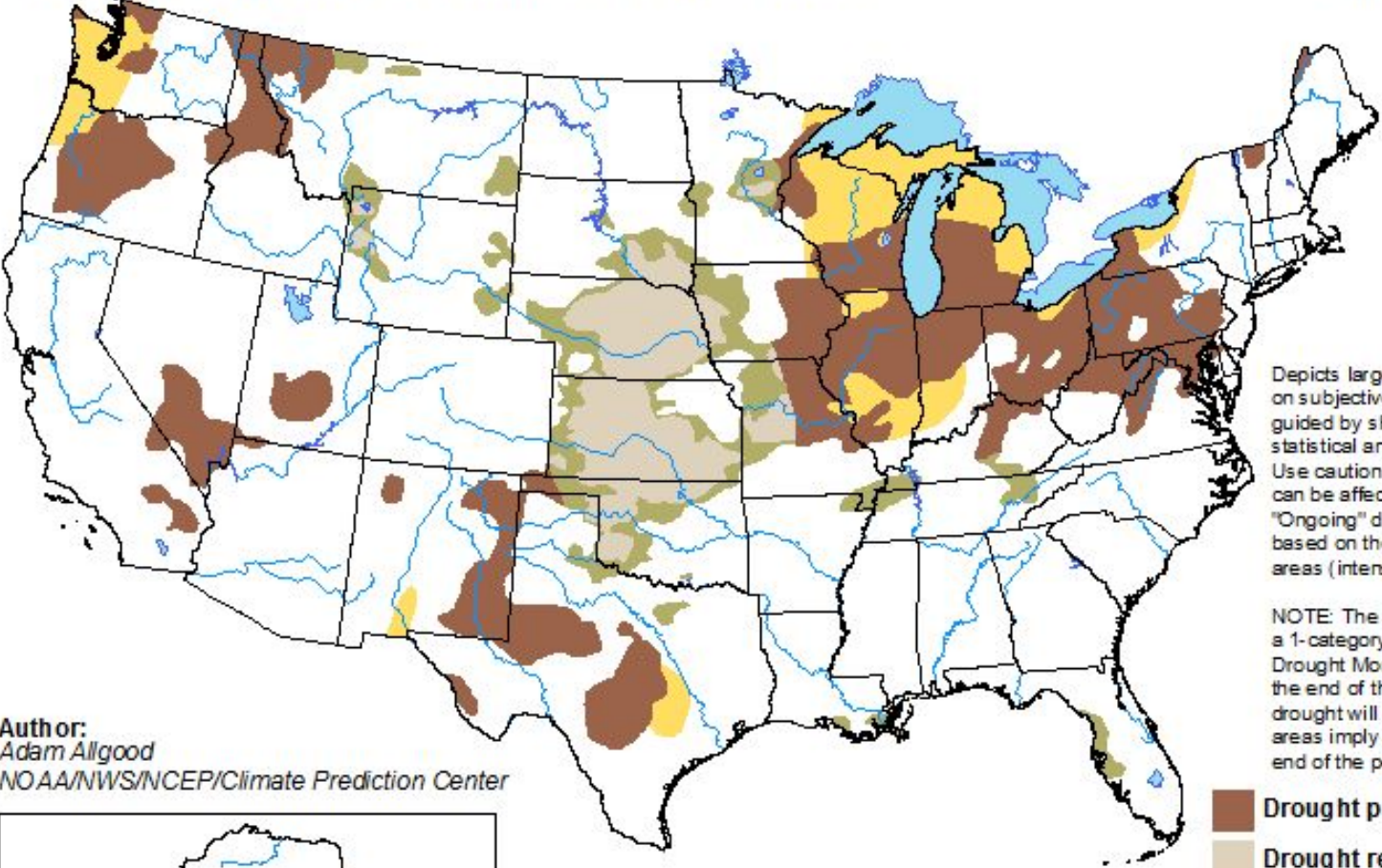
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Long Range Climate Outlooks



U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for June 15 - September 30, 2023
Released June 15

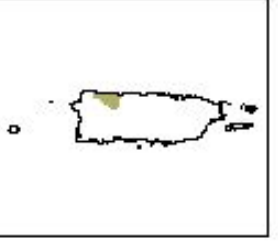
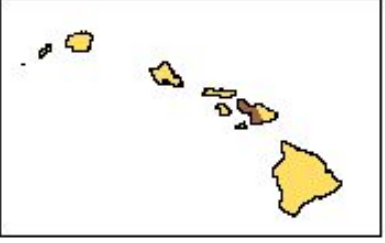
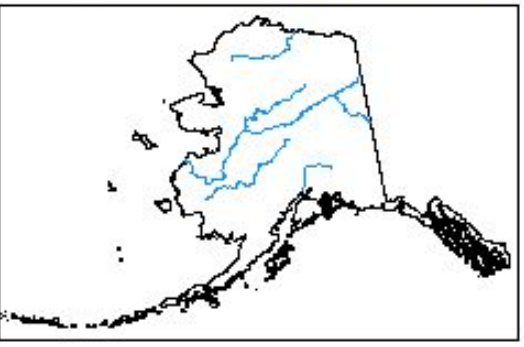


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

- Drought persists
- Drought remains but improves
- Drought removal likely
- Drought development likely

Author:
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NOAA/NWS/NCEP/Climate Prediction Center



<http://go.usa.gov/3eZ73>



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Questions, Comments, and Resources

Contact Information

If you have questions or comments about this information, please contact:

National Weather Service
1362 State Route 10
Lincoln, IL 62656

Phone: 217-732-3089

Acknowledgments:

The drought monitor is a multi-agency effort involving NOAA's National Weather Service and National Centers for Environmental Information, the USDA, state and regional center climatologists and the National Drought Mitigation Center. Information for this statement has been gathered from NWS and FAA observation sites, cooperative and volunteer observations, USDAFS, the USDA and USGS.

Additional Resources

Additional information on current drought conditions may be found at the following web addresses:

National Weather Service: <https://www.weather.gov/lincoln>

Climate Prediction Center: <https://www.cpc.ncep.noaa.gov>

Midwest Regional Climate Center (MRCC): <https://mrcc.purdue.edu>

Illinois State Climatologist: <https://stateclimatologist.web.illinois.edu>

Drought Monitor: <https://droughtmonitor.unl.edu/>

Drought.Gov: <https://www.drought.gov/states/illinois>

Drought Impact Reporter: <https://droughtimpacts.unl.edu/>

USGS Water Watch: <https://waterwatch.usgs.gov/>

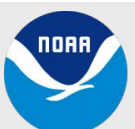
Rock Island Corps of Engineers (USACE): <https://mvr.usace.army.mil>

St. Louis Corps of Engineers (USACE): <https://mvs.usace.army.mil>

Louisville Corps of Engineers (USACE): <https://lrl.usace.army.mil>

National Water Dashboard: <https://dashboard.waterdata.usgs.gov>

USDA Crop Information: [https://www.nass.usda.gov/Statistics by State/Illinois/](https://www.nass.usda.gov/Statistics_by_State/Illinois/)



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